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# PERK UP

## HEAT STRESS RELIEF

*Perk Up* is a blend of **Floratine Technology**, calcium, simple and complex carbohydrates, and naturally occurring compounds specifically designed to treat stress induced deficiencies on intensively managed turfgrasses.

*Perk Up* contains elements required for:

- **Respiration Stress**
- **Wilt Resistance & Recovery**
- **Root Growth**
- **Reduced Senescence**
- **Cellular Strength**

Field proven and university tested, *Perk Up* combines readily available calcium and carbohydrates with proprietary and patent-based phytochemical, antioxidant, and amino acid technology.



“The heat and humidity had my grass on death’s door. *Perk Up* brought back health and color in two hours.”

- Scott McNeer, CGCS  
Spring Creek Ranch



[www.floratine.com](http://www.floratine.com)

heat stress relief  
 $\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{CH}_2\text{O}$

## TECHNICAL INFORMATION

**Perk Up's** nutrient and organic components address deficiencies commonly present during photosynthetic-respiration stress caused by humidity, low light, and saturated soil moisture conditions.

**CALCIUM** - Essential for respiration, cellular strength, and rooting.

**AMINO ACIDS** - Specific carbon components required for translocation and pectate formation.

**ANTIOXIDANTS** - Required to neutralize free radical damage to tissue.

**CARBOHYDRATES** - Necessary for plant energy and amino acid and glycomic formation.

**ORGANIC EXTRACTS** - Key to cell division and root growth.

### NUTRIENT CONTENT

Calcium (Ca) . . . . . 8.00%

Derived from calcium glucoheptonate.

**Perk Up** also contains other naturally occurring fermentation materials, antioxidants, and amino acids.

Net Weight: 11.45 lb/gal  
1.372 kg/L

“Nonstructural carbohydrates in plants serve as energy reserves to be used under stressful conditions. Closely mowed turf may suffer from heat stress injury by depleting carbohydrate reserves due to the increased demand for carbohydrates (i.e., increased respiration) and decreased production of carbohydrates (i.e., decreased net photosynthesis).”

*Low-Carb Diet, by Bingru Huang, X. Liu and Q. Xu, USGA Green Section Record*

## PROFESSIONAL USE GUIDELINES

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**APPLICATION:** Apply with any equipment that delivers a fine even spray mist to the target area utilizing 02-04 tips for a total spray volume of 20-40 gpa (200-350 L/ha). Do not water in. Wait at least 2 hours to irrigate.

**RATE OF APPLICATION:** On greens and tees, apply 1.5-3.0 fl oz / 1000 sq ft (5-10 L/ha) as soon as stress conditions and/or seasonal growth decline becomes apparent. Repeat applications every 10-14 days as stress conditions persist or as necessary.

**COMPATIBILITY:** **Perk Up** is tank mix compatible with many systemic fungicides, insecticides, and nutrient solutions. Jar test when in doubt. For best mixing results, remove tank strainer prior to product addition.



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